

TABLE 1-4

Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2019

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For profit business or industry	Nonprofit business or industry	Self employed, not-incorporated	Total	4-year educational institution ^a	2-year college or precollege educational institution	Total	Federal government	State or local government
All degrees	50,524,000	35,125,000	26,774,000	5,086,000	3,265,000	10,335,000	3,225,000	7,110,000	5,064,000	1,995,000	3,070,000
S&E fields	15,362,000	11,353,000	9,258,000	1,224,000	871,000	2,344,000	1,315,000	1,030,000	1,665,000	750,000	914,000
Biological, agricultural, and environmental life sciences	2,437,000	1,519,000	1,086,000	264,000	169,000	589,000	379,000	210,000	329,000	131,000	197,000
Agricultural and food sciences	266,000	194,000	149,000	21,000	24,000	40,000	24,000	17,000	32,000	20,000	12,000
Biological sciences	1,867,000	1,134,000	806,000	225,000	102,000	510,000	335,000	175,000	223,000	89,000	134,000
Environmental life sciences	303,000	191,000	130,000	18,000	43,000	39,000	21,000	18,000	73,000	22,000	51,000
Computer and mathematical sciences	2,837,000	2,280,000	2,047,000	135,000	99,000	337,000	169,000	168,000	220,000	115,000	105,000
Computer and information sciences	2,203,000	1,859,000	1,678,000	104,000	77,000	163,000	99,000	65,000	181,000	96,000	85,000
Mathematics and statistics	634,000	422,000	369,000	31,000	22,000	174,000	71,000	103,000	39,000	19,000	19,000
Physical and related sciences	889,000	601,000	513,000	59,000	28,000	187,000	133,000	53,000	102,000	50,000	52,000
Chemistry, except biochemistry	400,000	301,000	265,000	24,000	11,000	75,000	53,000	23,000	24,000	14,000	9,000
Earth, atmospheric, and ocean sciences	249,000	156,000	128,000	17,000	11,000	37,000	22,000	15,000	56,000	18,000	39,000
Physics and astronomy	220,000	129,000	113,000	12,000	4,000	72,000	59,000	14,000	19,000	15,000	4,000
Other physical sciences	20,000	15,000	7,000	S	D	2,000	*	2,000	S	S	D
Social and related sciences	5,474,000	3,807,000	2,693,000	670,000	444,000	1,009,000	460,000	549,000	658,000	255,000	403,000
Economics	856,000	686,000	587,000	32,000	68,000	72,000	51,000	21,000	98,000	45,000	53,000
Political and related sciences	971,000	706,000	542,000	108,000	57,000	127,000	66,000	61,000	137,000	80,000	57,000
Psychology	2,221,000	1,483,000	906,000	367,000	211,000	505,000	182,000	323,000	233,000	70,000	162,000
Sociology and anthropology	829,000	553,000	396,000	97,000	59,000	145,000	72,000	73,000	131,000	36,000	95,000
Other social sciences	598,000	378,000	262,000	67,000	50,000	160,000	88,000	72,000	59,000	24,000	35,000
Engineering	3,725,000	3,145,000	2,920,000	96,000	130,000	222,000	173,000	49,000	357,000	200,000	157,000
Aerospace, aeronautical, and astronautical engineering	142,000	111,000	106,000	3,000	S	10,000	8,000	S	21,000	18,000	D

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Chemical engineering	246,000	218,000	201,000	8,000	10,000	18,000	12,000	6,000	10,000	7,000	3,000
Civil and architectural engineering	544,000	408,000	383,000	7,000	18,000	29,000	22,000	7,000	106,000	22,000	84,000
Electrical and computer engineering	1,289,000	1,124,000	1,044,000	42,000	37,000	73,000	58,000	14,000	92,000	67,000	25,000
Industrial engineering	214,000	197,000	177,000	7,000	13,000	11,000	5,000	7,000	6,000	4,000	S
Mechanical engineering	739,000	643,000	608,000	12,000	22,000	35,000	25,000	10,000	61,000	50,000	11,000
Other engineering	552,000	444,000	401,000	16,000	27,000	47,000	43,000	4,000	61,000	32,000	29,000
S&E-related fields	7,429,000	5,564,000	3,516,000	1,571,000	478,000	1,285,000	603,000	682,000	579,000	247,000	333,000
Health	5,979,000	4,644,000	2,737,000	1,522,000	386,000	867,000	543,000	324,000	468,000	209,000	259,000
Science and mathematics teacher education	469,000	110,000	79,000	7,000	24,000	344,000	23,000	322,000	S	D	S
Technology and technical fields	479,000	401,000	359,000	18,000	24,000	34,000	12,000	22,000	44,000	25,000	19,000
Other S&E-related fields	501,000	409,000	342,000	24,000	44,000	39,000	25,000	15,000	53,000	13,000	40,000
Non-S&E fields	27,734,000	18,208,000	14,000,000	2,291,000	1,917,000	6,706,000	1,307,000	5,398,000	2,820,000	997,000	1,823,000
Management and administration fields	9,499,000	7,895,000	6,694,000	565,000	636,000	750,000	338,000	412,000	855,000	385,000	469,000
Education, except science and math teacher education	5,285,000	1,190,000	752,000	278,000	160,000	3,968,000	244,000	3,724,000	127,000	29,000	98,000
Social service and related fields	1,413,000	1,003,000	376,000	544,000	84,000	205,000	90,000	115,000	205,000	29,000	176,000
Sales and marketing fields	1,299,000	1,158,000	1,017,000	63,000	78,000	65,000	20,000	46,000	75,000	61,000	14,000
Art and humanities fields	4,487,000	3,116,000	2,232,000	443,000	441,000	989,000	328,000	660,000	382,000	145,000	237,000
Other non-S&E fields	5,750,000	3,845,000	2,929,000	399,000	517,000	728,000	287,000	441,000	1,177,000	348,000	829,000
Bachelor's	31,373,000	23,604,000	18,459,000	3,008,000	2,137,000	4,616,000	1,249,000	3,367,000	3,154,000	1,137,000	2,017,000
S&E fields	10,731,000	8,361,000	6,838,000	865,000	658,000	1,207,000	541,000	666,000	1,163,000	466,000	696,000
Biological, agricultural, and environmental life sciences	1,688,000	1,171,000	835,000	193,000	144,000	284,000	157,000	126,000	233,000	81,000	153,000
Agricultural and food sciences	207,000	159,000	122,000	15,000	22,000	23,000	10,000	13,000	25,000	17,000	8,000
Biological sciences	1,254,000	858,000	608,000	169,000	81,000	235,000	135,000	100,000	160,000	50,000	110,000
Environmental life sciences	228,000	154,000	105,000	9,000	S	26,000	12,000	14,000	48,000	13,000	34,000

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Computer and mathematical sciences	1,896,000	1,545,000	1,381,000	87,000	77,000	188,000	70,000	118,000	162,000	89,000	73,000
Computer and information sciences	1,478,000	1,240,000	1,113,000	64,000	63,000	101,000	48,000	53,000	137,000	80,000	57,000
Mathematics and statistics	418,000	305,000	269,000	22,000	14,000	87,000	22,000	65,000	26,000	9,000	16,000
Physical and related sciences	520,000	381,000	323,000	40,000	17,000	76,000	44,000	31,000	63,000	20,000	43,000
Chemistry, except biochemistry	257,000	206,000	179,000	19,000	7,000	40,000	25,000	15,000	11,000	4,000	7,000
Earth, atmospheric, and ocean sciences	163,000	110,000	90,000	14,000	6,000	9,000	4,000	5,000	44,000	11,000	33,000
Physics and astronomy	85,000	54,000	49,000	3,000	S	25,000	15,000	10,000	7,000	4,000	S
Other physical sciences	16,000	11,000	6,000	D	D	2,000	D	S	S	D	D
Social and related sciences	4,097,000	3,061,000	2,263,000	481,000	318,000	564,000	205,000	359,000	472,000	159,000	313,000
Economics	709,000	595,000	525,000	19,000	50,000	37,000	21,000	16,000	77,000	29,000	48,000
Political and related sciences	760,000	603,000	480,000	75,000	49,000	76,000	29,000	47,000	81,000	39,000	42,000
Psychology	1,509,000	1,078,000	695,000	257,000	127,000	262,000	80,000	182,000	169,000	47,000	122,000
Sociology and anthropology	711,000	516,000	372,000	89,000	56,000	85,000	26,000	59,000	110,000	31,000	78,000
Other social sciences	407,000	269,000	190,000	41,000	37,000	103,000	49,000	55,000	35,000	13,000	23,000
Engineering	2,530,000	2,203,000	2,035,000	64,000	103,000	96,000	65,000	31,000	232,000	117,000	115,000
Aerospace, aeronautical, and astronautical engineering	88,000	74,000	70,000	3,000	S	1,000	S	D	13,000	9,000	D
Chemical engineering	186,000	172,000	159,000	7,000	S	7,000	4,000	3,000	7,000	5,000	2,000
Civil and architectural engineering	397,000	313,000	291,000	6,000	15,000	9,000	7,000	S	75,000	16,000	59,000
Electrical and computer engineering	840,000	744,000	684,000	31,000	29,000	38,000	29,000	10,000	57,000	36,000	22,000
Industrial engineering	141,000	130,000	115,000	4,000	11,000	8,000	S	5,000	3,000	2,000	D
Mechanical engineering	563,000	499,000	473,000	9,000	17,000	17,000	9,000	8,000	47,000	37,000	10,000
Other engineering	316,000	271,000	244,000	5,000	21,000	14,000	12,000	2,000	31,000	12,000	18,000

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S&E-related fields	3,771,000	3,012,000	1,882,000	886,000	244,000	485,000	197,000	288,000	273,000	99,000	174,000
Health	2,844,000	2,353,000	1,321,000	857,000	175,000	295,000	172,000	123,000	195,000	65,000	130,000
Science and mathematics teacher education	206,000	57,000	42,000	2,000	14,000	138,000	S	136,000	S	D	S
Technology and technical fields	388,000	322,000	284,000	16,000	22,000	26,000	S	19,000	41,000	23,000	18,000
Other S&E-related fields	332,000	280,000	235,000	12,000	33,000	26,000	15,000	11,000	27,000	11,000	16,000
Non-S&E fields	16,871,000	12,231,000	9,739,000	1,257,000	1,235,000	2,923,000	511,000	2,413,000	1,717,000	571,000	1,146,000
Management and administration fields	6,264,000	5,205,000	4,421,000	356,000	428,000	461,000	186,000	275,000	597,000	248,000	349,000
Education, except science and math teacher education	2,063,000	690,000	472,000	156,000	62,000	1,319,000	S	1,290,000	55,000	S	34,000
Social service and related fields	554,000	393,000	186,000	152,000	55,000	53,000	23,000	30,000	108,000	8,000	100,000
Sales and marketing fields	1,057,000	949,000	830,000	57,000	62,000	49,000	D	39,000	59,000	47,000	11,000
Art and humanities fields	3,581,000	2,644,000	1,986,000	323,000	336,000	600,000	137,000	463,000	337,000	121,000	216,000
Other non-S&E fields	3,352,000	2,350,000	1,845,000	212,000	293,000	440,000	126,000	314,000	562,000	127,000	435,000
Master's	14,158,000	8,353,000	6,142,000	1,493,000	718,000	4,463,000	976,000	3,487,000	1,342,000	570,000	773,000
S&E fields	3,350,000	2,366,000	1,953,000	269,000	144,000	596,000	293,000	302,000	388,000	200,000	188,000
Biological, agricultural, and environmental life sciences	388,000	193,000	137,000	42,000	13,000	132,000	66,000	67,000	63,000	25,000	37,000
Agricultural and food sciences	40,000	25,000	18,000	S	S	9,000	6,000	3,000	6,000	2,000	4,000
Biological sciences	280,000	133,000	95,000	28,000	9,000	114,000	54,000	60,000	33,000	16,000	18,000
Environmental life sciences	68,000	36,000	24,000	9,000	S	9,000	5,000	4,000	23,000	8,000	16,000
Computer and mathematical sciences	829,000	678,000	613,000	44,000	21,000	98,000	51,000	46,000	53,000	22,000	31,000
Computer and information sciences	668,000	581,000	529,000	38,000	13,000	44,000	33,000	11,000	44,000	15,000	28,000
Mathematics and statistics	161,000	97,000	83,000	6,000	8,000	54,000	18,000	36,000	10,000	7,000	3,000

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Physical and related sciences	170,000	109,000	96,000	S	7,000	42,000	26,000	16,000	19,000	12,000	7,000
Chemistry, except biochemistry	51,000	37,000	34,000	*	S	10,000	5,000	4,000	5,000	3,000	2,000
Earth, atmospheric, and ocean sciences	60,000	36,000	30,000	D	S	14,000	5,000	9,000	9,000	4,000	5,000
Physics and astronomy	56,000	34,000	32,000	S	D	18,000	16,000	3,000	3,000	3,000	D
Other physical sciences	3,000	S	*	D	D	*	D	*	D	D	D
Social and related sciences	1,001,000	590,000	354,000	153,000	83,000	259,000	102,000	157,000	151,000	76,000	75,000
Economics	106,000	71,000	49,000	7,000	15,000	17,000	14,000	3,000	18,000	13,000	4,000
Political and related sciences	171,000	93,000	60,000	26,000	7,000	25,000	13,000	12,000	53,000	40,000	13,000
Psychology	507,000	302,000	161,000	93,000	48,000	163,000	44,000	119,000	42,000	9,000	33,000
Sociology and anthropology	67,000	25,000	19,000	4,000	S	24,000	15,000	9,000	19,000	3,000	15,000
Other social sciences	150,000	100,000	66,000	23,000	11,000	30,000	16,000	14,000	20,000	10,000	10,000
Engineering	961,000	796,000	752,000	24,000	21,000	64,000	48,000	16,000	101,000	65,000	37,000
Aerospace, aeronautical, and astronautical engineering	44,000	33,000	32,000	*	D	5,000	4,000	D	6,000	6,000	D
Chemical engineering	30,000	26,000	23,000	S	1,000	S	S	D	S	D	S
Civil and architectural engineering	126,000	88,000	84,000	1,000	3,000	9,000	5,000	S	29,000	5,000	24,000
Electrical and computer engineering	381,000	330,000	314,000	9,000	7,000	22,000	17,000	4,000	29,000	26,000	3,000
Industrial engineering	62,000	59,000	55,000	2,000	2,000	2,000	S	D	2,000	*	D
Mechanical engineering	147,000	125,000	118,000	3,000	S	9,000	7,000	2,000	13,000	12,000	1,000
Other engineering	171,000	136,000	125,000	7,000	3,000	13,000	12,000	1,000	22,000	15,000	7,000
S&E-related fields	1,920,000	1,197,000	730,000	358,000	110,000	522,000	151,000	371,000	201,000	79,000	122,000
Health	1,420,000	944,000	518,000	340,000	87,000	306,000	126,000	180,000	169,000	75,000	94,000
Science and mathematics teacher education	252,000	51,000	37,000	4,000	10,000	197,000	13,000	184,000	4,000	D	4,000
Technology and technical fields	82,000	73,000	69,000	S	S	7,000	4,000	S	2,000	S	S

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Other S&E-related fields	166,000	129,000	106,000	12,000	11,000	11,000	7,000	S	26,000	S	24,000
Non-S&E fields	8,888,000	4,790,000	3,460,000	866,000	464,000	3,345,000	531,000	2,814,000	753,000	291,000	462,000
Management and administration fields	3,178,000	2,674,000	2,264,000	206,000	203,000	250,000	129,000	121,000	254,000	135,000	119,000
Education, except science and math teacher education	3,063,000	472,000	276,000	105,000	92,000	2,523,000	161,000	2,362,000	68,000	9,000	58,000
Social service and related fields	769,000	558,000	183,000	347,000	28,000	121,000	42,000	78,000	90,000	20,000	70,000
Sales and marketing fields	237,000	209,000	187,000	6,000	16,000	11,000	S	6,000	S	S	S
Art and humanities fields	739,000	430,000	231,000	108,000	91,000	266,000	102,000	165,000	43,000	22,000	20,000
Other non-S&E fields	903,000	447,000	318,000	95,000	34,000	174,000	92,000	82,000	282,000	90,000	192,000
Doctorate	2,090,000	985,000	658,000	233,000	95,000	955,000	759,000	196,000	150,000	100,000	50,000
S&E fields	1,239,000	603,000	457,000	86,000	60,000	526,000	472,000	54,000	109,000	82,000	27,000
Biological, agricultural, and environmental life sciences	360,000	155,000	113,000	29,000	13,000	173,000	156,000	17,000	32,000	25,000	7,000
Agricultural and food sciences	20,000	10,000	10,000	S	D	9,000	8,000	S	1,000	S	D
Biological sciences	333,000	143,000	102,000	28,000	13,000	161,000	145,000	16,000	30,000	23,000	6,000
Environmental life sciences	7,000	2,000	1,000	*	D	3,000	3,000	D	2,000	S	1,000
Computer and mathematical sciences	112,000	57,000	53,000	4,000	S	51,000	48,000	3,000	4,000	4,000	D
Computer and information sciences	56,000	38,000	36,000	D	S	17,000	17,000	D	1,000	1,000	D
Mathematics and statistics	56,000	19,000	17,000	2,000	D	33,000	30,000	S	3,000	3,000	D
Physical and related sciences	199,000	111,000	93,000	13,000	4,000	69,000	63,000	6,000	19,000	18,000	2,000
Chemistry, except biochemistry	92,000	59,000	52,000	5,000	2,000	26,000	22,000	4,000	8,000	7,000	D
Earth, atmospheric, and ocean sciences	27,000	9,000	8,000	S	*	14,000	13,000	S	3,000	3,000	*
Physics and astronomy	79,000	41,000	33,000	S	2,000	29,000	28,000	1,000	8,000	7,000	S

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Other physical sciences	2,000	2,000	S	D	D	D	D	D	D	D	D
Social and related sciences	335,000	133,000	65,000	33,000	35,000	171,000	146,000	26,000	30,000	18,000	12,000
Economics	41,000	21,000	12,000	6,000	3,000	18,000	17,000	S	3,000	2,000	1,000
Political and related sciences	39,000	10,000	2,000	7,000	S	26,000	23,000	S	3,000	1,000	S
Psychology	164,000	81,000	39,000	13,000	28,000	65,000	51,000	14,000	17,000	13,000	5,000
Sociology and anthropology	50,000	12,000	6,000	5,000	1,000	36,000	30,000	5,000	3,000	1,000	S
Other social sciences	40,000	9,000	5,000	S	S	27,000	24,000	3,000	S	*	S
Engineering	233,000	146,000	132,000	7,000	7,000	63,000	61,000	2,000	23,000	18,000	6,000
Aerospace, aeronautical, and astronautical engineering	9,000	4,000	4,000	D	D	3,000	3,000	D	2,000	2,000	D
Chemical engineering	30,000	21,000	18,000	*	D	7,000	7,000	*	2,000	D	D
Civil and architectural engineering	21,000	8,000	8,000	D	D	11,000	10,000	D	2,000	1,000	2,000
Electrical and computer engineering	68,000	50,000	46,000	3,000	*	13,000	12,000	*	6,000	6,000	D
Industrial engineering	10,000	8,000	8,000	D	D	1,000	1,000	D	D	D	D
Mechanical engineering	28,000	18,000	17,000	D	S	9,000	9,000	*	1,000	1,000	D
Other engineering	66,000	38,000	31,000	3,000	3,000	19,000	19,000	D	8,000	5,000	S
S&E-related fields	305,000	207,000	137,000	63,000	8,000	78,000	65,000	13,000	20,000	12,000	8,000
Health	283,000	199,000	130,000	62,000	7,000	65,000	55,000	10,000	19,000	11,000	8,000
Science and mathematics teacher education	11,000	D	D	D	D	9,000	7,000	2,000	D	D	D
Technology and technical fields	9,000	6,000	6,000	D	D	2,000	2,000	D	D	D	D
Other S&E-related fields	3,000	1,000	1,000	D	D	2,000	2,000	D	D	D	D
Non-S&E fields	546,000	175,000	64,000	84,000	27,000	350,000	221,000	129,000	21,000	6,000	S
Management and administration fields	58,000	16,000	8,000	D	S	39,000	23,000	D	4,000	S	D
Education, except science and math teacher education	159,000	29,000	5,000	17,000	6,000	126,000	55,000	71,000	S	D	S

TABLE 1-4

Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2019

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For profit business or industry	Nonprofit business or industry	Self employed, not-incorporated	Total	4-year educational institution ^a	2-year college or precollege educational institution	Total	Federal government	State or local government
Social service and related fields	90,000	52,000	7,000	44,000	D	31,000	25,000	7,000	D	D	D
Sales and marketing fields	4,000	D	D	D	D	4,000	4,000	D	D	D	D
Art and humanities fields	167,000	42,000	15,000	13,000	14,000	122,000	90,000	33,000	S	D	D
Other non-S&E fields	67,000	37,000	29,000	S	D	27,000	25,000	S	3,000	1,000	D
Professional	2,903,000	2,182,000	1,516,000	352,000	314,000	302,000	242,000	61,000	418,000	189,000	230,000
S&E fields	42,000	23,000	11,000	4,000	8,000	15,000	7,000	S	4,000	S	2,000
S&E-related fields	1,433,000	1,147,000	767,000	264,000	117,000	201,000	190,000	10,000	85,000	57,000	28,000
Non-S&E fields	1,428,000	1,012,000	738,000	84,000	190,000	87,000	44,000	43,000	329,000	130,000	200,000

* = suppressed when population estimate < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Includes medical schools and university-affiliated research institutes.

Note(s):

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, National Survey of College Graduates: 2019.